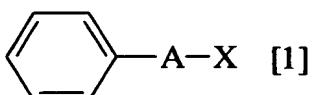


WHAT IS CLAIMED IS:

1. A method for deuteration of a hydrogen atom of a methyl group or a hydrogen atom bonded to a carbon atom at benzyl position and the other carbon atoms of an alkylene group having not less than 2 carbon atoms, in a compound containing the methyl group or the alkylene group having not less than 2 carbon atoms, directly bonded to an aromatic ring which may have a substituent, which comprises placing said compound in a deuterated solvent in the presence of activated palladium 10 carbon, under sealed reflux condition.
2. The method for deuteration according to claim 1, wherein said compound containing the methyl group or the alkylene group having not less than 2 carbon atoms, directly bonded to the aromatic ring which may have the substituent is a compound 15 having said methyl group.
3. The method for deuteration according to claim 1, wherein said compound containing the methyl group or the alkylene group having not less than 2 carbon atoms, directly bonded to the aromatic ring which may have the substituent, is a compound 20 containing said alkylene group having not less than 2 carbon atoms, directly bonded to the aromatic ring which may have a substituent.
4. The method for deuteration according to claim 1, wherein said compound containing the methyl group or the alkylene group having not less than 2 carbon atoms, directly bonded to the aromatic ring, in said compound containing the methyl group or the alkylene group having not less than 2 carbon atoms, directly bonded to the aromatic ring which may have the substituent, is a compound represented by the general formula 25 [1]:



(wherein A is a methylene group or an alkylene group having not less than 2 carbon atoms; and X is a hydrogen atom, an alkoxy

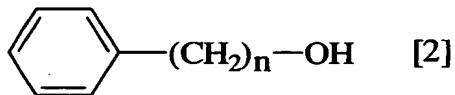
group, a carboxyl group, a hydroxyl group, an amino group, an acyl group, an acylamino group or an alkoxy carbonyl group; and when A is a methylene group, X is a hydrogen atom).

5. The method for deuteration according to claim 3, wherein
the alkylene group having not less than 2 carbon atoms,
represented by A is a straight chained alkylene group and X is
a hydrogen atom, a carboxyl group, an acyl group, an acylamino
group or an alkoxy carbonyl group.

6. The method for deuteration according to claim 3, wherein
10 the alkylene group having not less than 2 carbon atoms,
represented by A is a straight chained alkylene group having
not less than 3 carbon atoms and X is an alkoxy group, a
hydroxyl group or an amino group

7. The method for deuteration according to claim 3, wherein
15 the substituent, which an aromatic ring may have, is one
selected from the group consisting of an alkyl group, an aryl
group, an aralkyl group, an alkoxy group, a nitro group and an
amino group.

8. A compound represented by the general formula [2]:



(wherein n is 3, 4 or 5).